





Federal Implementation Guideline for Electronic Data Interchange

ASC X12 003060 Transaction Set 997 Functional Acknowledgment

Implementation Convention



U.S. DEPARTMENT OF COMMERCE
Technology Administration
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At Boulder, CO 80303.

²Some elements at Boulder, CO.

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997 Functional Acknowledgement

Functional Group ID=FA

Introduction:

This Draft Standard for Trial Use contains the format and establishes the data contents of the Functional Acknowledgement Transaction Set (997) for use within the context of an Electronic Data Interchange (EDI) environment. The transaction set can be used to define the control structures for a set of acknowledgements to indicate the results of the syntactical analysis of the electronically encoded documents. The encoded documents are the transaction sets, which are grouped in functional groups, used in defining transactions for business data interchange. This standard does not cover the semantic meaning of the information encoded in the transaction sets.

Notes:

Use this implementation convention to acknowledge receipt, and acceptance or rejection of a functional group and the transaction set(s) contained within it based upon EDI translation software syntax edits.

Must Use	Pos. <u>No.</u> 010	Seg. <u>ID</u> ST	<u>Name</u> Transaction Set Header	Req. <u>Des.</u> M	<u>Max.Use</u> l	Loop <u>Repeat</u>	Notes and Comments n1
Must Use	020	AK1	Functional Group Response Header	М	1		n2
			LOOP ID - AK2			999999	
	030	AK2	Transaction Set Response Header	ŐŎ	1		n3
			LOOP ID - AK3			999999	
	040	AK3	Data Segment Note	Ô	1		cl
	050	AK4	Data Element Note	O	99		
Must Use	060	AK5	Transaction Set Response Trailer	М	1		
Must Use	070	AK9	Functional Group Response Trailer	M	1		
Must Use	080	SE	Transaction Set Trailer	M	1		

Transaction Set Notes

- 1. These acknowledgements shall not be acknowledged, thereby preventing an endless cycle of acknowledgements of acknowledgements.
 - The Functional Group Header Segment (GS) is used to start the envelope for the Functional Acknowledgement Transaction Sets. In preparing the functional group of acknowledgements, the application sender's code and the application receiver's code, taken from the functional group being acknowledged, are exchanged; therefore, one acknowledgement functional group responds to only those functional groups from one application receiver's code to one application sender's code.
 - There is only one Functional Acknowledgement Transaction Set per acknowledged functional group.
- 2. AK1 is used to respond to the functional group header and to start the acknowledgement for a functional group. There shall be one AK1 segment for the functional group that is being acknowledged.
- 3. AK2 is used to start the acknowledgement of a transaction set within the received functional group. The AK2 segments shall appear in the same order as the transaction sets in the functional group that has been received and is being acknowledged.

Transaction Set Comments

1. The data segments of this standard are used to report the results of the syntactical analysis of the functional groups of transaction sets; they report the extent to which the syntax complies with the standards for transaction sets and functional groups. They do not report on the semantic meaning of the transaction sets (for example, on the ability of the receiver to comply with the request of the sender).

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Segment: ST Transaction Set Header

Position: 010

Loop:

Level:

Usage: Mandatory

Max Use:

Purpose: To indicate the start of a transaction set and to assign a control number

Syntax Notes:

Semantic Notes: 1 The transaction set identifier (ST01) used by the translation routines of the

interchange partners to select the appropriate transaction set definition (e.g., 810

selects the Invoice Transaction Set).

Comments:

	Ref.	Data		
	Des.	Element	<u>Name</u>	Attributes
Must Use	ST01	143	Transaction Set Identifier Code	M ID 3/3
			Code uniquely identifying a Transaction Set	
			997 X12.20 Functional Acknowledgemen	ıt
Must Use	ST02	702 329	Transaction Set Control Number	M AN 4/9
			Identifying control number that must be unique within the functional group assigned by the originator for a transactio	
			Use to transmit a unique number assigned by the original transaction set. The number may be system generated. It will be cited in SE02.	This same number

Segment: AK1 Functional Group Response Header

Position: 020

Loop:

Level:

Usage: Mandatory

Max Use:

To start acknowledgement of a functional group

Syntax Notes:

Semantic Notes: 1

Purpose:

1 AK101 is the functional ID found in the GS segment (GS01) in the functional group being acknowledged.

2 AK102 is the functional group control number found in the GS segment in the functional group being acknowledged.

Comments:

Notes:

1. Use to identify the unique identification number of the functional group in which the transaction set(s) being acknowledged was received.

2. Only one functional group may be referenced in a single 997 acknowledgement transaction set.

Must Use	Ref. Des. El Must Use AK101		Name Functional Identifier Code Code identifying a group of application related transaction s	M	ributes ID 2/2
			Cite, using the appropriate code from the X12 code list, the ID found in GS01 of the functional group being acknowled Refer to 003060 Data Element Dictionary for acceptable co	dged.	
Must Use	AK102	28	Group Control Number Assigned number originated and maintained by the sender Use to identify the number cited in GS06 of the functional acknowledged.	M grou	No 1/9

Segment: AK2 Transaction Set Response Header

Position: 030 Loop: AK2

Level:

Usage: Optional

Max Use:

Purpose: To start acknowledgement of a single transaction set

Syntax Notes: Semantic Notes:

1 AK201 is the transaction set ID found in the ST segment (ST01) in the transaction set being acknowledged.

2 AK202 is the transaction set control number found in the ST segment in the transaction set being acknowledged.

Comments:

Notes: 1. Use to identify the unique identification number of the transaction set being acknowledged.

2. AK2 and AK5 shall be provided for each transaction set that is accepted.

3. Also, AK2 and AK5 shall be provided for each transaction set being rejected for containing a syntactical error.

	Ref. Des.	Data <u>Element</u>	<u>Name</u>	Att	ributes		
Must Use	AK201	143	Transaction Set Identifier Code Code uniquely identifying a Transaction Set	M	ID 3/3		
			Refer to 003060 Data Element Dictionary for acceptable co-	de va	lues.		
Must Use	AK202	329	Transaction Set Control Number M AN 4/2 Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set Use to identify the number cited in SE02/ST02 of the transaction set be acknowledged.				

Segment: AK3 Data Segment Note

Position: 040 Loop: AK3

Level:

Usage: Optional

Max Use: 1

Purpose: To report errors in a data segment and identify the location of the data segment

Syntax Notes: Semantic Notes:

Comments:

Notes:

This 1/AK3/040 loop shall be used only to identify one or more segments containing syntactical errors resulting in rejection of the transaction set or functional group. This loop shall not be used when transaction set and functional group receipt and acceptance is being acknowledged.

	Ref.	Data	Data Element Summary				
	Des.	Element	Name	Att	ributes		
Must Use	AK301	721	Segment ID Code	M	ID 2/3		
			Code defining the segment ID of the data segment in error	(See A	Appendix A -		
			Number 77)	Ì	•		
			Use to identify the segment containing syntactical errors,	as it c	appears in the		
			ASC X12 Data Segment Dictionary, e.g., DTM, N1, REF		an annual artifus in a suitable for		
Must Use	AK302	719	Segment Position in Transaction Set	M	N0 1/6		
			The numerical count position of this data segment from the	e start	of the		
			transaction set: the transaction set header is count position	1			
			Use to identify the segment's sequential position within the	ie date	stream of		
			the transaction set as transmitted. This number is not the segment's position				
			number portrayed in the transaction set structure. For example, if the				
			segments used in an 810 request for progress payment were as follows: ST,				
			BIG, REF, N1, N1, PER, ITD, DTM, IT1, IT1, SLN, SL				
			SE, and there was a syntax error in the second use of the				
			number cited would be 5. If the syntax error was in the t	hird u	se of the SLN		
			segment, the number cited would be 13.	. 100			
	AK303	447	Loop Identifier Code	O	AN 1/4		
			The loop ID number given on the transaction set diagram i	s the v	alue for this		
			data element in segments LS and LE				
	AK304	720	Segment Syntax Error Code	O	ID 1/3		
			Code indicating error found based on the syntax editing of a segment				
			1. Use only when a segment is being rejected, to identify	the ba	sis for		
			rejection. Do not use when the error is in a data element within the segment				
			and editing is being done at least to that level.		9		
			Refer to 003060 Data Element Dictionary for acceptable co	ode va	lues.		
			•				

AK4 Data Element Note Segment:

Position: AK3 Loop:

Level:

Optional Usage:

Max Use: Purpose:

To report errors in a data element and identify the location of the data element

Syntax Notes: Semantic Notes: Comments:

Notes:

Use to identify an error with a data element. When used, there must be a use of the AK3 segment citing the segment in which the data element with the error appears. Use multiple occurrences of this segment to identify all data element errors within the segment specified in the preceding AK3 segment.

	Def	Data	Data Element Summar y		
Must Use	Ref. <u>Des.</u> AK401	Data Element C030	Name Position in Segment	<u>Attı</u> M	<u>ributes</u>
			Code indicating the relative position of a simple data eleme position of a composite data structure combined with the re the component data element within the composite data structure count starts with 1 for the simple data element or composite immediately following the segment ID	lative cture,	position of in error; the
Must Use	C03001	722	Element Position in Segment This is used to indicate the relative position of a simple data relative position of a composite data structure with the relation component within the composite data structure, in error; in the count starts with 1 for the simple data element or composite immediately following the segment ID Use to indicate the position of the data element, within the containing the error, e.g., 3, 12, etc.	the da	osition of the ata segment lata structure
	C03002	1528	Component Data Element Position in Composite To identify the component data element position within the error	O comp	No 1/2 posite that is in
Must Use	AK402	725	Data Element Reference Number Reference number used to locate the data element in the Da Dictionary Use to identify the data element number as it appears in th Element Dictionary, for example, the data element number the data element number for N103 is 66.	he AS	C X12 Data
Must Use	AK403	723	Data Element Syntax Error Code Code indicating the error found after syntax edits of a data of Refer to 003060 Data Element Dictionary for acceptable co		
	AK404	724	Copy of Bad Data Element This is a copy of the data element in error	0	AN 1/99

Segment: AK5 Transaction Set Response Trailer

Position: 060 Loop: AK2

Level:

Usage: Mandatory

Max Use: 1

Purpose:

To acknowledge acceptance or rejection and report errors in a transaction set

Syntax Notes: Semantic Notes: Comments:

Notes:

Use to indicate whether the transaction set indicated in the corresponding AK2 segment was accepted or rejected. If the transaction set is being rejected, use this segment to identify up to five (5) syntax errors at the transaction level.

	Ref.	Data	, and the second				
	Des.	Element	<u>Name</u>	Att	<u>ributes</u>		
Must Use	AK501	717	Transaction Set Acknowledgement Code	M	ID 1/1		
			Code indicating accept or reject condition based on the synt	ax ed	iting of the		
			transaction set	1	1		
	A 1/2 E 0.2	710	Refer to 003060 Data Element Dictionary for acceptable coo				
	AK502	718	Transaction Set Syntax Error Code	0	ID 1/3		
			Code indicating error found based on the syntax editing of a				
			 Use only when a transaction set is being rejected, to identify the basis for rejection. If multiple codes apply, they may be carried in AK503 through AK506, as necessary. No individual code may be used more than once in a single use of this segment. Use code 5 when the 1/AK3/040 loop is not used and syntactical errors occurred below the transaction set level. 				
			Refer to 003060 Data Element Dictionary for acceptable coo	le va	lues.		
	AK503	718	Transaction Set Syntax Error Code	O	ID 1/3		
			Code indicating error found based on the syntax editing of a transaction set				
			Refer to 003060 Data Element Dictionary for acceptable code values.				
	AK504	504 718	Transaction Set Syntax Error Code	O	ID 1/3		
			Code indicating error found based on the syntax editing of a transaction set				
			Refer to 003060 Data Element Dictionary for acceptable code values.				
	AK505	718	Transaction Set Syntax Error Code	O	ID 1/3		
			Code indicating error found based on the syntax editing of a transaction set				
			Refer to 003060 Data Element Dictionary for acceptable code values.				
	AK506	Z506 718	Transaction Set Syntax Error Code	O	ID 1/3		
			Code indicating error found based on the syntax editing of a transaction set				
			Refer to 003060 Data Element Dictionary for acceptable code values.				

Segment: AK9 Functional Group Response Trailer
Position: 070

Loop: Level:

Usage: Mandatory

Max Use:

Purpose: To acknowledge acceptance or rejection of a functional group and report the number of included transaction sets from the original trailer, the accepted sets, and the received sets

in this functional group

Syntax Notes: Semantic Notes:

Comments: 1 If AK901 contains the value "A" or "E", then the transmitted functional group is accepted. If AK901 contains the value "R", then the transmitted group is rejected.

Notes: 1. Use only to indicate whether the functional group was accepted or rejected based on syntax errors in the functional group header or trailer.

- 2. If a functional group is rejected, all transaction sets within that group must be rejected using the AK9. In this case, individual AK2s for the rejected transaction sets need not be provided.
- 3. If the functional group is being rejected, use to identify up to five (5) syntax errors at the functional group level.

Data Element Summary					
Ref. Data					
Des. Element Name Attribut					
1 8	1/1				
Code indicating accept or reject condition based on the syntax editing functional group	or the				
Refer to 003060 Data Element Dictionary for acceptable code values.					
	1/6				
Total number of transaction sets included in the functional group or	2, 0				
interchange (transmission) group terminated by the trailer containing	this data				
element					
	1/6				
Number of Transaction Sets received					
A	1/6				
Number of accepted Transaction Sets in a Functional Group	1 /2				
A 0	1/3				
Code indicating error found based on the syntax editing of the function header and/or trailer	nal group				
	1. Use only when a functional group is being rejected to identify the basis				
for rejection.	D D WS IS				
2. Codes may also be carried in AK906 through AK909, but no indi					
code may be used more than once in a single iteration of this segme					
Refer to 003060 Data Element Dictionary for acceptable code values.					
1 0	1/3				
Code indicating error found based on the syntax editing of the function	onal group				
header and/or trailer Refer to 003060 Data Element Dictionary for acceptable code values.					
	1/3				
* ·					
Code indicating error found based on the syntax editing of the function header and/or trailer	mai group				
Refer to 003060 Data Element Dictionary for acceptable code values.					
	1/3				
Code indicating error found based on the syntax editing of the function					

header and/or trailer

Refer to 003060 Data Element Dictionary for acceptable code values.

AK909 716 Functional Group Syntax Error Code

O ID 1/3

Code indicating error found based on the syntax editing of the functional group header and/or trailer

Refer to 003060 Data Element Dictionary for acceptable code values.

997 - Functional Acknowledgement

Segment: SE Transaction Set Trailer

Position: 080

Loop: Level:

Usage: Mandatory

Max Use: 1

Purpose: To indicate the end of the transaction set and provide the count of the transmitted

segments (including the beginning (ST) and ending (SE) segments)

Syntax Notes:

Semantic Notes:

Comments: 1 SE is the last segment of each transaction set.

	Ref.	Data	·		
	Des.	Element	Name	Attr	ributes
Must Use	SE01	96	Number of Included Segments	M	N0 1/10
			Total number of segments included in a transaction set inclusegments	ıding	ST and SE
Must Use	SE02	329	Transaction Set Control Number	M	AN 4/9
			Identifying control number that must be unique within the tr	ansac	ction set
			functional group assigned by the originator for a transaction	set	
			Use the same number cited in ST02.		:. : : : : : : :

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